

Notice to Comply	Application No. 10/082,973	Applicant(s) Norris, James	
	Examiner Janet L. Epps-Smith	Art Unit 1633	

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set in the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other:

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", **as well as an amendment specifically directing its entry into the specification.**
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (571) 272-2510

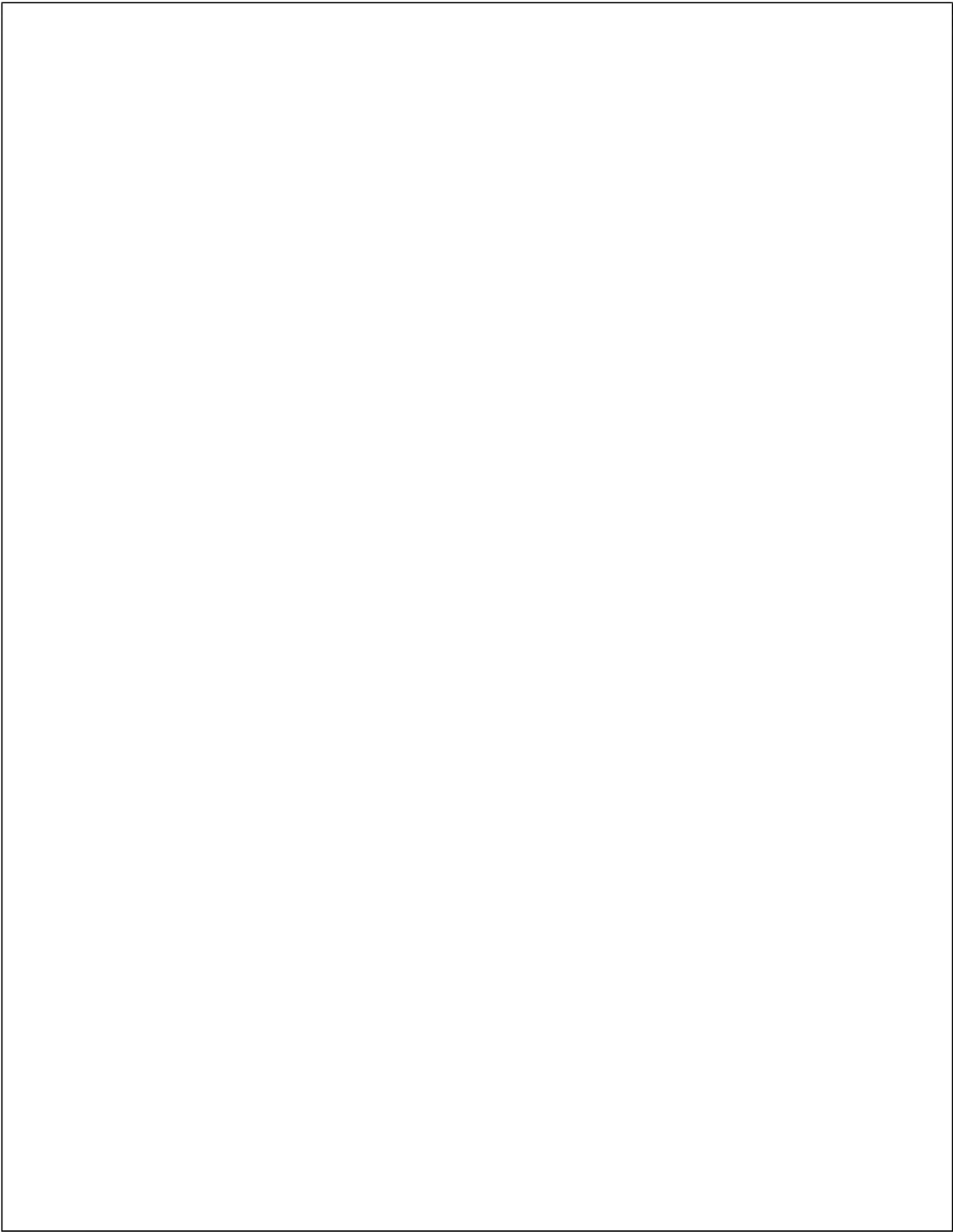
For CRF Submission Help, call (571) 272-2501/2583.

PatentIn Software Program Support

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY



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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=5; day=28; hr=12; min=33; sec=4; ms=333;]

=====

Reviewer Comments:

<140> 10/082,973

2002-02-26

Please insert a <141> at the beginning of the above "2002-02-26" line;
<141> is a mandatory numeric identifier indicating the current filing date.

<210> 8

<211> 56

<212> DNA

<213> E. coli

Please spell out the Genus ("Escherichia") in the above <213> response;
per Sequence Rules, show the Genus species in that response. Same response in subsequent sequences.

<210> 20

<211> 34

<212> DNA

<213> Mus musculus

Please change the above <213> response to "Mus musculus".

<210> 21

<211> 36

<212> DNA

<213> HBV

Please spell out the virus in the above <213> response; same in Sequence

22.

<210> 51

<211> 364

<212> DNA

213> Artificial Sequence

<220>

<223> pSnip ribozyme cassette

Please add an opening bracket ("<") to the above <213> numeric identifier. It must be <213>.

Application No: 10082973

Version No: 3.0

Input Set:

Output Set:

Started: 2009-05-28 10:39:30.012

Finished: 2009-05-28 10:39:33.620

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 608 ms

Total Warnings: 45

Total Errors: 2

No. of SeqIDs Defined: 73

Actual SeqID Count: 73

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 402	Undefined organism found in <213> in SEQ ID (20)
W 402	Undefined organism found in <213> in SEQ ID (21)
W 402	Undefined organism found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
W 213	Artificial or Unknown found in <213> in SEQ ID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)

Input Set:

Output Set:

Started: 2009-05-28 10:39:30.012
Finished: 2009-05-28 10:39:33.620
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 608 ms
Total Warnings: 45
Total Errors: 2
No. of SeqIDs Defined: 73
Actual SeqID Count: 73

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (40)
W 213	Artificial or Unknown found in <213> in SEQ ID (41)
W 213	Artificial or Unknown found in <213> in SEQ ID (42)
W 213	Artificial or Unknown found in <213> in SEQ ID (43)
W 213	Artificial or Unknown found in <213> in SEQ ID (44)
W 213	Artificial or Unknown found in <213> in SEQ ID (45)
W 213	Artificial or Unknown found in <213> in SEQ ID (46)
W 213	Artificial or Unknown found in <213> in SEQ ID (47)
W 213	Artificial or Unknown found in <213> in SEQ ID (48) This error has occurred more than 20 times, will not be displayed
E 249	Order Sequence Error <212> -> <220>; Expected Mandatory Tag: <213> in SEQID (51)
W 402	Undefined organism found in <213> in SEQ ID (54)
W 402	Undefined organism found in <213> in SEQ ID (55)
W 402	Undefined organism found in <213> in SEQ ID (56)
W 402	Undefined organism found in <213> in SEQ ID (57)
W 402	Undefined organism found in <213> in SEQ ID (58)
W 402	Undefined organism found in <213> in SEQ ID (59)
W 402	Undefined organism found in <213> in SEQ ID (60)
W 402	Undefined organism found in <213> in SEQ ID (61)
W 402	Undefined organism found in <213> in SEQ ID (62)
W 402	Undefined organism found in <213> in SEQ ID (63)
W 402	Undefined organism found in <213> in SEQ ID (64) This error has occurred more than 20 times, will not be displayed

Input Set:

Output Set:

Started: 2009-05-28 10:39:30.012
Finished: 2009-05-28 10:39:33.620
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 608 ms
Total Warnings: 45
Total Errors: 2
No. of SeqIDs Defined: 73
Actual SeqID Count: 73

Error code	Error Description
E 250	Structural Validation Error; Sequence listing may not be indexable

SEQUENCE LISTING

<110> Norris, James S.
 Clawson, Gary A.
 Schmidt, Michael G.
 Hoel, Brian D.
 Pan, Wei-Hua
 Dolan, Joseph W.

<120> TISSUE-SPECIFIC AND TARGET RNA-SPECIFIC RIBOZYMES

<130> 14017-0004002

<140> 10/082,973
 2002-02-26

<150> 09/338,942

<151> 1999-06-24

<150> 60/090,560

<151> 1998-06-24

<150> 60/096,502

<151> 1998-08-14

<160> 73

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 492

<212> DNA

<213> Artificial Sequence

<220>

<223> ARN promoter

<400> 1

actcgccgat catcttcacc atcgcccgca actcctgcgg gatatacctcg tctctctcct	60
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gategggcgc gtcgggtgcc gcggccgggt cttccgcctg ctcggccggtg ccggtcggtg	180
cggccttgcc gtcgcggcgc gcgcgcgatg agggccggcac ctgggtggtg atccagccac	240
tgagggtcaa cattccagtc actccgggaa aaatggaatt cttccattgg atcgccccac	300
gcgtgcgcaa cttgagcccc ctttctgctg ccccttgaca ggggtgcgaca ggtagtcgca	360
gttgtttgac gcaagtcaact gattggaaac gccatcggcc tgtcagaaat ggtcgttgcc	420
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cctagcaagg ac	492

<210> 2

<211> 1113

<212> DNA

<213> Artificial Sequence

<220>

<223> PROC promoter

<400> 2

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ggtgagcaggc cggcggagag gtgcagggtc gaagcgcctt gtttggcact gaaggcagac      180
agctcggtaa tatccatggg actccccaat tacaagcaag caggtagaat gccgccaaag      240
ccgcctgtct ggacaaggaa aacaccggat gagccagggt gcttccagga caccgctggt      300
gtctcgcgcc agacgcggaa cctcgacact ggaacaggaa gatggccatc gaggcgggcg      360
gtttcgaggg cgtcgagccg acgcgcaccc cacttccata gggcgcagggt aatgtccacg      420
atagcagaga atattgcaaa ggttgcccg cgcattccgtg aggcagcgca agctgcgggg      480
cgcgatccgg ccacggtcgg cctgctcgcc gtgagcaaga ccaagcccg cgcgcgggtg      540
cgcgaggcgc acgcgcggcg ccttcgcgac ttggcgaaa actaectgca ggaggccctc      600
ggcaagcagg ccgaactggc cgacctgccc ttgaactggc acttcacgg ccccatccag      660
tcgaacaaga cgcggcccat cgcgagcat ttccagtggg tgcactcggg ggaccggttg      720
aagatcgccg agcgcctgtc ggagcaacgc cggcggggc tgccgccctt gaatgtctgc      780
ctgcagggtc acgtcagcgg cgaagccagc aagtcgggtt gcgccccga ggacctgccc      840
gccctggccg aggccgtgaa gcaactgccc aacctcggat tgcgtggcct gatggccatc      900
cccgaacca ccgcccgaac gcgcgcgcaa caccgcgctt tcgcccgcct gcgcgaactg      960
ctgctggacc tgaaccttgg cctggacacc ctgtccatgg gcattgagca cgacctcgag     1020
gcagccatcg gcgaagggtc gacctgggtc cgcattcggt ccgcctgtt cggcgcggcg     1080
gactacggcg cgcggccttc ttgaatgaat ccc                                     1113
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<210> 3

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> ARC promoter

<400> 3

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ctagagctat tgatgtgat caacattgtc cactagccgc tgccgcctaa tctccagaat      60
tgtgag                                             66
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<210> 4

<211> 685

<212> DNA

<213> Artificial Sequence

<220>

<223> UPCM2 cassette sequence

<400> 4

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acgatgacat tctgtcgacc agattcacgg tcagcagaat gtcacgtcgg gttccaggat     180
ccggctgcta acaaagcccg aaaggaagct gagttggctg ctgccaccgc tgagcaataa     240
ctagcataac ccttggggc ctctaaacgg gtcttgaggg gttttttgct gaaaggagga     300
actatatccg gatatccgc aagaggeccg gcagtaccgg cataaccaag cctatgccta     360
cagcatccag ggtgacggtg ccgaggatga cgatgagcgc attgttagat ttcatacacg     420
gtgcctgact gcgttagcaa tttaactgtg ataaactacc gcattaaage ttatcgatga     480
taagctgtca aacatgagaa ttgcgcgtat acgcgaatt tcaagggtct gcgcaacgac     540
gacgatgagg taccacatcg tcgtcgttgc gactgatga ggccgtgagg ccgaaacctt     600
tgacgcgtaa aaaaaacccg ccccgcgggg ttttttacc ttctatgcg gccgctctag     660
tcgagggggg gcccgctaga actag                                             685
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<212> DNA

<213> Artificial Sequence

<220>

<223> P2CM2 cassette sequence

<400> 5

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cgtgaggacg aaacgatgac attctgctga ccagattcac ggtcagcaga atgtcatcgt      180
cggttccagg atccggctgc taacaaagcc cgaaaggaag ctgagttggc tgetgccacc      240
gctgagcaat aactagcata accccttggg gcctctaaac gggctttgag ggggtttttg      300
ctgaaaggag gaactatata cggatatccc gcaagaggcc cggcagtacc ggcataacca      360
agcctatgcc tacagcatcc agggtgacgg tgccgaggat gacgatgagc gcattgttag      420
atttcataca cggtgccctga ctgcgttagc aatttaactg tgataaacta ccgcattaaa      480
gcttatcgat gataagctgt caaacatgag aattcggcgt atacgccgaa tttcaagggg      540
ctgcgcaacg acgacgatga ggtaccacat cgtcgtcgtt gcgcactgat gaggccgtga      600
ggccgaaacc cttgacgcgt aaaaaaacc cgccccggcg ggttttttac gcgttcctat      660
gcggccgctc tag                                         673
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<210> 6

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 6

```
agctcgagct caga                                         14
```

<210> 7

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 7

```
tcgacggatc tagatcc                                         17
```

<210> 8

<211> 56

<212> DNA

<213> E. coli

<400> 8

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agatctaaat cattcacctg atgagtcctg gaggacgaaa ctttagcaaa ccaagg      56
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<210> 9

<211> 54

<212> DNA

<213> E. coli

<400> 9

agatctaaat tcgtttctga tgagtcctg aggacgaaac accacaaaag atct 54

<210> 10

<211> 54

<212> DNA

<213> E. coli

<400> 10

agatctaaac cacatcctga tgagtcctg aggacgaaac agtttaaacc aagg 54

<210> 11

<211> 55

<212> DNA

<213> E. coli

<400> 11

agatctaaac gatttctga tgagtcctg aggacgaaac atcaccaaaac caagg 55

<210> 12

<211> 56

<212> DNA

<213> E. coli

<400> 12

agatctaaat gcgtctgat agtcctgag gacgaaacag gcaggtaaaa ccaagg 56

<210> 13

<211> 53

<212> DNA

<213> Streptomyces lividans

<400> 13

agatctaaag tactcctgat gagtcctga ggacgaaacc agcgaaacca agg 53

<210> 14

<211> 55

<212> DNA

<213> Enterococcus faecalis

<400> 14

agatctaaaa cttttgctga tgagtcctg aggacgaaac gtgtataaac caagg 55

<210> 15

<211> 54

<212> DNA

<213> Psudeomonas putida

<400> 15

agatctaaat cgttttctga tgagtcctg aggacgaaac gtgataaacc aagg 54

<210> 16

<211> 54

<212> DNA

<213> Streptomyces coelicolor

<400> 16

agatctaaag tcgatgctga tgagtcctg aggacgaaac ttcgcaaacc aagg 54

<210> 17
 <211> 56
 <212> DNA
 <213> *Staphylococcus warneri*

 <400> 17
 agatctaaat gcgtctgatg agtccgtgag gacgaaacag gcaggcgaaa ccaagg 56

 <210> 18
 <211> 38
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 <213> Artificial Sequence

 <220>
 <223> B2 consensus

 <400> 18
 tgctcttctg atgagtccgt gaggacgaaa cgcctga 38

 <210> 19
 <211> 39
 <212> DNA
 <213> *Mus musculus*

 <400> 19
 ttcaaagact gatgagtccg tgaggacgaa acgaggatc 39

 <210> 20
 <211> 34
 <212> DNA
 <213> *Mus musculus*

 <400> 20
 gtccatctga tgagtccgtg aggacgaaac cggc 34

 <210> 21
 <211> 36
 <212> DNA
 <213> HBV

 <400> 21
 attagagctg atgagtccgt gaggacgaaa caaacg 36

 <210> 22
 <211> 37
 <212> DNA
 <213> HPV

 <400> 22
 gtcttgactg atgagtccgt gaggacgaaa cattgca 37

 <210> 23
 <211> 44
 <212> DNA
 <213> *Homo sapiens*

 <400> 23

tccgttgtct ctgatgagtc cgtgaggacg aaacatgaca ccga 44

<210> 24

<211> 39

<212> DNA

<213> Homo sapiens

<400> 24

gcgaggagct gatgagtcg tgaggacgaa acatggtgt 39

<210> 25

<211> 37

<212> DNA

<213> Mus musculus

<400> 25

aacttttctg atgagtcggt gaggacgaaa cataatg 37

<210> 26

<211> 42

<212> DNA

<213> Rattus norvegicus

<400> 26

tcgaagctgt ctgatgagtc cgtgaggacg aaaccgcgtt ga 42

<210> 27

<211> 37

<212> DNA

<213> Mus musculus

<400> 27

atcagggtct gatgagtcg tgaggacgaa aggtgcc 37

<210> 28

<211> 37

<212> DNA

<213> Rattus norvegicus

<400> 28

tcttcgactg atgagtcggt gaggacgaaa catggt 37

<210> 29

<211> 37

<212> DNA

<213> Homo sapiens

<400> 29

tagcacactg atgagtcggt gaggacgaaa cgtttga 37

<210> 30

<211> 36

<212> DNA

<213> Homo sapiens

<400> 30

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<210> 31
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 <210> 37
 <211> 55
 <212> DNA
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 <211> 59
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> primer

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 <210> 39
 <211> 55
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> primer

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 <210> 40
 <211> 46
 <212> DNA
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 <220>
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 <220>
 <223> primer

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 <210> 42
 <211> 41
 <212> DNA
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 <220>
 <223> primer

 <400> 42
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 <213> Artificial Sequence

 <220>
 <223> ribozyme construct

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 tgaa 64

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 <211> 65
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 <213> Artificial Sequence

 <220>
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 atctg 65

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 <223> ribozyme construct

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 <220>
 <223> ribozyme construct


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ttg 63

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<213> Artificial Sequence

<220>
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tacg 64

<210> 49
<211> 170
<212> RNA
<213> Artificial Sequence

<220>
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<221> modified_base
<222> (1)...(170)
<223> n=a, c, g, or u

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agauccgucc ugaugagucc gugaggacga aacggaucug cagcggccgc 170

<210> 50
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<220>
<223> pChop triple ribozyme

<220>
<221> modified_base
<222> (1)...(249)
<223> n=a, c, g, or u

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acgaaannnn nnnnnggaau uccaaggguc ugcgcaacga cgacgaugag guaccacauc 180
gucgucguug cgcacugaug agggcgugag gccgaaaccc uugacgcguu ccuaugcggc 240
cgcucuaga 249

<210> 51
<211> 364
<212> DNA

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213> Artificial Sequence

<220>

<223> pSnip ribozyme cassette

<400> 51

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ctcagatctc tcgagcaatt gatecgtcga cggatgtaga tccgtcctga tgagtcctg    120
aggacgaaac ggatctcgag cggatatcca gctttggaac cctgatgagt ccgtgaggac    180
gaaacgatga cattctgctg accagattca cggtcagcag aatgtcatcg tcggttccag    240
gatecttgcc tgaattccaa gggctctgcg aacgacgacg atgagggtacc acatcgtcgt    300
cgttgccgac tgatgaggcc gtgaggccga aacccttgac gcgttcctat gcggccgctc    360
taga    364
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<210> 52

<211> 685

<212> DNA

<213> Artificial Sequence

<220>

<223> modified pChop cassette

<400> 52

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acgatgacat tctgctgacc agattcacgg tcagcagaat gtcacgtcgc gttccaggat    180
ccggctgcta acaaagcccg aaagggaagct gagttggctg ctgccaccgc tgagcaataa    240
ctagcataac cccttggggc ctctaaacgg gtcttgaggg gttttttgct gaaaggagga    300
actatatccg gatatcccg aagaggcccg gcagtaccgg cataaccaag cctatgccta    360
cagcatccag ggtgacggtg ccgaggatga cgatgagcgc attgttagat ttcatacacg    420
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taagctgtca aacatgagaa ttcggcgtat acgccgaatt tcaagggctc gcgcaacgac    540
gacgatgagg taccacatcg tcgtcgttgc gcaactgatga ggccgtgagg ccgaaaccct    600
tgacgcgtaa aaaaaaccgg ccccgccggg ttttttacc ttcctatcgc gcgcgtctag    660
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<210> 53

<211> 216

<212> DNA

<213> Artificial Sequence

<220>

<223> pChop ribozyme cassette

<400> 53

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cacggucage agaaugucau cgucgguucc aggauccuug ccugaaaucc aaggguucugc    120
gcaacgacga cgaugaggua ccacaucguc gucguugcgc acugaugagg ccgugaggcc    180
gaaaccuuug acgcguuccu augcggecgc ucuaga    216
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<210> 54

<211> 54

<212> DNA

<213> E. coli

<400> 54

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<210> 55

<211> 56

<212> DNA

<213> E. coli

<400> 55

agatctaaac atctcactga tgagtcctg aggacgaaac attacgaaac caaagg 56

<210> 56

<211> 54

<212> DNA

<213> E. coli

<400> 56

agatctaaaa aaaaacctga tgagtcctg aggacgaaac tggttaaaag atct 54

<210> 57

<211> 54

<212> DNA

<213> E. coli

<400> 57

agatctaaat tatccactga tgagtcctg aggacgaaac gggcgaaaag atct 54

<210> 58

<211> 54

<212> DNA

<213> E. coli

<400> 58

agatctaaat cgttacctga tgagtcctg aggacgaaac taccgaaaag atct 54

<210> 59

<211> 54

<212> DNA

<213> E. coli

<400> 59

agatctaaat gatgttctga tgagtcctg aggacgaaac cacttaaaag atct 54

<210> 60

<211> 54

<212> DNA

<213> E. coli

<400> 60

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<210> 61

<211> 55

<212> DNA

<213> E. coli

<400> 61
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 <213> E. coli

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 <210> 63
 <211> 54
 <212> DNA
 <213> E. coli

 <400> 63
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 <210> 64
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 <213> E. coli

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 <210> 65
 <211> 54
 <212> DNA
 <213> E. coli

 <400> 65
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 <210> 66
 <211> 53
 <212> DNA
 <213> Streptomyces lividans

 <400> 66
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 <210> 67
 <211> 51
 <212> DNA
 <213> Streptomyces lividans

 <400> 67
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 <210> 68
 <211> 56
 <212> DNA
 <213> Enterococcus faecalis

 <400> 68

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<210> 69

<211> 57

<212> DNA

<213> *Enterococcus faecalis*

<400> 69

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<210> 70

<211> 54

<212> DNA

<213> *Pseudomonas putida*

<400> 70

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<210> 71

<211> 54

<212> DNA

<213> *Pseudomonas putida*

<400> 71

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<210> 72

<211> 54

<212> DNA

<213> *Streptomyces coelicolor*

<400> 72

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<210> 73

<211> 52

<212> DNA

<213> *Streptomyces coelicolor*

<400> 73

agatctaaac gaggctgat gaggtcctga ggacgaaacc gggaaaccaa gg 52